1. SCOPE

1.1. Description of Test

This method describes the procedure for determining the conditioned mass of fabrics.

2. APPARATUS AND MATERIALS

2.1. Equipment Required

2.1.1. A rigid scale or rule capable of measuring samples of not less than 200 mm.

2.1.2. A calibrated balance or scale accurate to ± 0.2%.

3. PROCEDURE

3.1. Sample Preparation

Cut two samples 1 m by 1 m.

Alternately a minimum of five samples with an area of not less than 400 cm² may be used.

No sample may be taken nearer than 20 cm from the edge of the roll.

3.2. Test Procedure

The fabric shall be laid on a flat surface and a sample cut from it.

The length and width shall be re-measured and the surface area calculated.

The sample is then weighed.
## 4. RESULTS AND CALCULATIONS

### 4.1. Collection of Test Results

Suggested format for laboratory recording:

<table>
<thead>
<tr>
<th>GEOTEXTILE TESTING</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASS</td>
<td>Type &amp; trade name of material</td>
</tr>
<tr>
<td></td>
<td>Project</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Sample No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Ave.</th>
</tr>
</thead>
</table>

Sample Size

Weight

Mass (g/m²)

### 4.2. Calculations

Determine the mass by multiplying the average test weight results by the multiple of the sample area that equals 1 m².

i.e.: Sample Size 20 x 20 cm
      Sample Weight 6.2 g

\[
\text{Mass} = \frac{10000 \text{ m} \times 6.2}{400 \text{ cm}} = 155 \text{ g/m}^2
\]
4.3. **Reporting Results**

Report the average of the test results as the mass of a given material type.

5. **ADDED INFORMATION**

5.1. **References**

ASTM D7910-64  
CGSB CAN2-4.2-M77 Method 5.4
New ___ Revision X ___ Date of Previous Document 86-04-30
Effective Date: ___-___

Description of Revision (Reason for Revision):
Format updated.

Review/Implementation Process:
Reviewed by the Materials Section of the Technical Standards and Policies Branch.

Other Manuals/Policies Affected:
Nil

Follow Up/Training Required:
Nil

Comments/Concerns/Implications (Budget/Environment/Stakeholders):

Prepared and Recommended by D. MacLeod ____________ 93-05-18
Materials Standards Engineer Date

Approval Recommended by R.A. Widger ____________ - -
Senior Materials Engineer Date

Approval Recommended by A.R. Gerbrandt ____________ - -
Dir., Technical Standards & Policies Br. Date

Approved by D.G. Metz ____________ - -
Assistant Deputy Minister, Infrastructure Date

Electronic File Updated - -
Update Mailed - -